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35461 S/109/62/007/003/003/029 D234/D502

AUTHOR:

Zyuzev, N.F.

TITLE:

Detection of periodical pulse signals in the presence of pulse disturbances and incoherent storage

PERIODICAL:

Radioteknnika i elektronika, v. 7, no. 3, 1962,

The author considers the reception of signals by a receiver, TEXT: whose detector and storage unit have linear characteristics. It is supposed that the effective voltage of internal noises of the receiver is much smaller than the voltage amplitude of the disturbing pulses. Formulas are obtained which allow determination of the probability of false alarm and that of correct detection (i.e. the probability that the signal with the disturbance will exceed the threshold value at the output of the storage unit), in terms of the signal/disturbance ratio at the input and the magnitude of the threshold. If the probability for at least one disturbing pulse to occur in a certain time interval and the probability of superposi-

Detection of periodical pulse ...

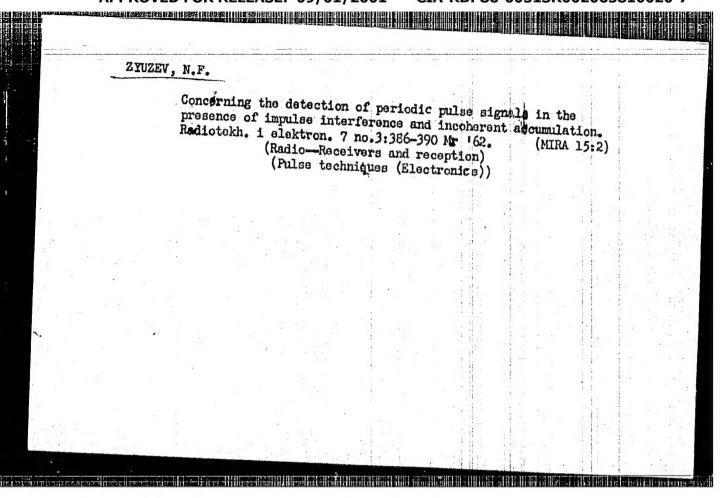
S/109/62/007/003/003/029 D234/D302

tion of a disturbance pulse with a signal are both larger than 0.1 and the number of stored pulses n is larger than 10, the formulas for normal distribution can be used with some error. If the above probabilities are both smaller than 0.1, the distribution of random quantities behind the storage unit approaches the normal distribution only when n > 100. There are 2 figures and 1 Soviet-bloc

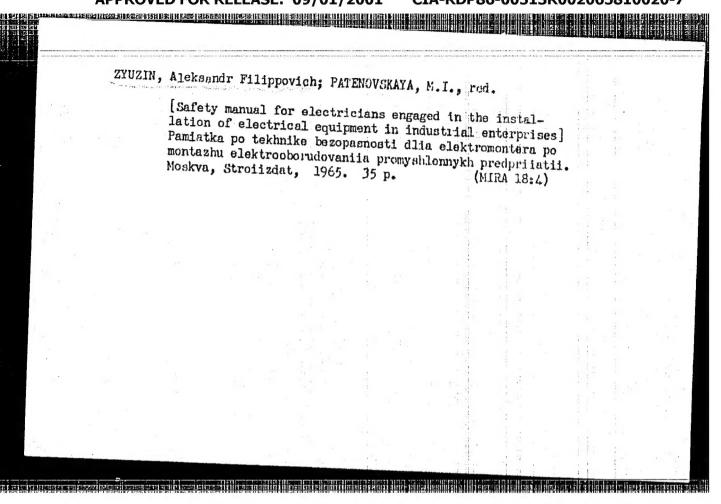
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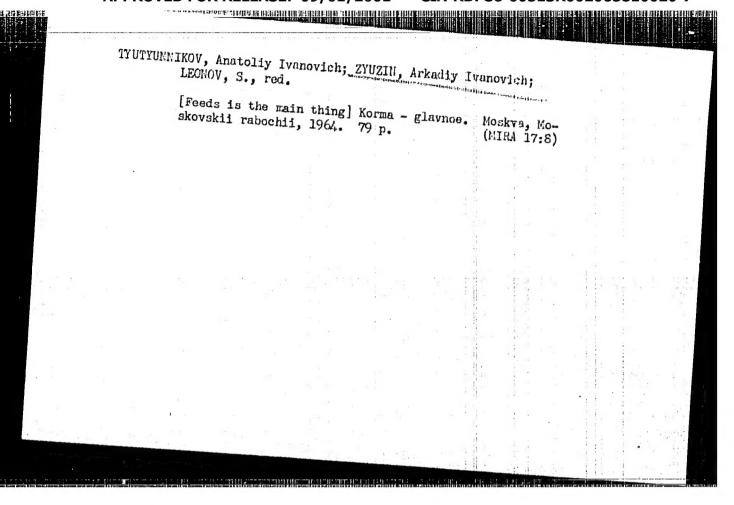
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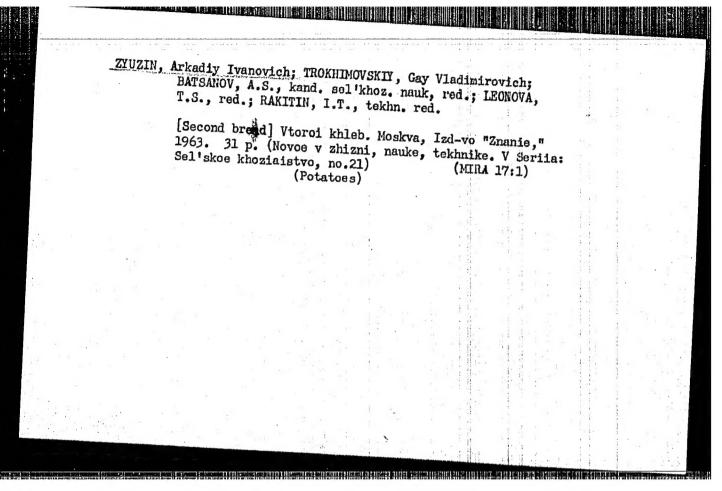
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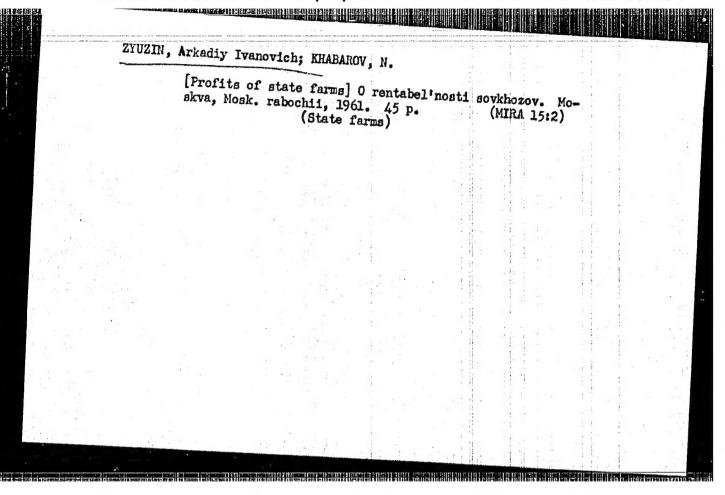


ZYUZIN, A.F.; IL'IN, Ye.V.; LAZAREV, N.I.; SOKOLOV, D.V., inzh., nauchnyy red.; SHIROKOVA, G.M., red. izd-va; BOROVNEV, N.K., [Installing electrical equipment in industrial enterprises and installations] Montach elektrooborudovaniia promyshlennykh predpriiatii i ustanovok. Moskva, Gos. isd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 283 p. (MIRA 15:2) (Electric power distribution--Equipment and supplies)







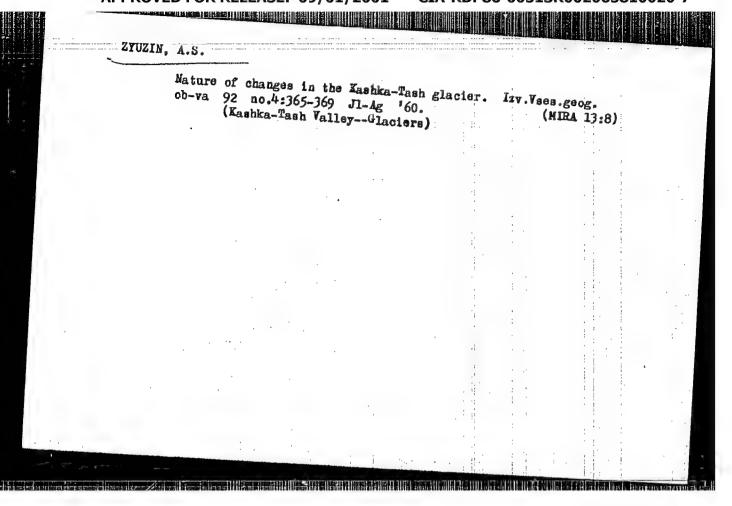


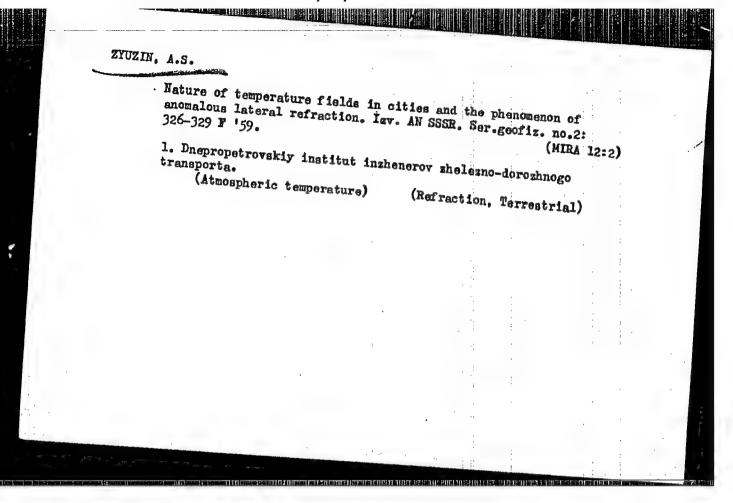
MAKAROV, N.I.; SKLYAROV, V.Ya.; ALIKPEROVA, Sh.M.; NADZHAROV, A.F.;
DZEBISASHVILI, Yu.I.; MATSAKANYAN, A.G.; ODINOCHENKO, O.N.;

AZUCAROVA, M.Kh.; ZYUZIK A.S.

Morbidity from anthrax in animals and humans in Ciscaucasia and Transcaucasis in 1960-1961: authors' abstract. Zhur. mikrobiol.
epid. 1 immun. 40 no.5:112-113 My '63. (MIRA 17:6)

1. Iz Nauchno-issledovatel'skogo protivochumnogo instituta Kavkaza i Zakavkazya, Azerbaydzhanskoy, Armyanskoy, Gruzinskoy, Severo-Osetinskoy, Checheno-Ingushskoy respublikanskikh sanitarno-stantsi:





#### 

3(2),3(4) AUTHOR:

Zyuzin, A. S., Candidate of Technical Sciences

807/6-58-12-4/14

TITLE:

Peculiarities of Angle Measurements in Mountains (Osobennosti uglovykh izmereniy v gorakh)

PERIODICAL:

Geodeziya i kartografiya, 1958, Nr 12, pp 14-20 (USSR)

ABSTRACT:

For a more accurate study of the conditions under which local fields of refraction occur in various physical-geographical areas, and for a more accurate determination of the quantitative and qualitative distortion of horizontal angles brought about by these fields, experiments were carried out in a gorge in the high mountains in summer 1957, independently of the TsNIIGAIK. The gorge is extending from south-east to north-west. In the south, it is closed by the main ridge and its branches over the valley. Glaciers reach down into the glaciers flows through 2250 meters, and have a total surface of 30 km<sup>2</sup>. The northern, over, are covered with wood and grass up to a height of 3000-3300 meters. On account of the investigation, the following

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Peculiarities of Angle Measurements in Mountains

SOV/6-58-12-4/14

was found: 1) On quiet sunny days in the mountains, great local refraction fields are formed due to high insulation and the difference in heat-technical properties of the subsoil. The stability of these fields is favored by the orography of mountain regions. The gorges shut off by mountains weaken the mixing of air layers. For this reason, angle measurements in mountain regions may contain big errors due to lateral refraction, which exceed by far the normal error of measurement. 2) In mountain regions, horizontal temperature gradients with a zero value may be observed not only before sunset, but sometimes also later. Therefore, the instructions for the most favorable time of angle measurement (after 16 hours) should be supplemented by a clause for observations in the mountains as in these regions observations may be greatly influenced by lateral refraction in the evening. The problem is to be solved separately for each occasion, considering the orography, the character of the subsoil in individual directions, and illumination of slopes. There are 3 figures, 4 tables, and 3 Soviet references.

Card 2/2

AUTHOR: Zyuzin, A. S.

TITLE: The Nature of a Temperature Field in a Town and the Phenomenon of Anomalous Lateral Refraction (Kharakter temperaturnogo polya v gorode i yavleniye anomal'noy bokovoy refraktsii)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1959, Nr 2, pp 326-329 (USSR)

ABSTRACT: When considerable horizontal gradients exist in the atmosphere, lateral refraction of light rays may occur. Such temperature gradients may be found in towns where during the day strong heating of walls of buildings may occur. Such heating will depend on the intensity and the angle of incidence of solar radiation. Lateral reflection distorts the results of measurements of angles in precise geodesical work in towns. This phenomenon was studied by the author and his results are reported in the present paper. It is assumed (Fig 1) that an object B is observed at a point A parallel to the y-axis and that a horizontal gradient of the refractive index exists between A and B. The gradient \( \alpha \) is such as to bend the light ray downwards (along the x-axis) and it is given

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The Nature of a Temperature Field in a Town and the Phenomenon of Anomalous Lateral Refraction

by  $n=n_0^{}+\alpha x$ , where  $n_0^{}$  is the refractive index at a point where the ray is parallel to AB . Assuming that the angle of lateral refraction  $\gamma$  is small, the author found:

$$\gamma = \frac{S\alpha}{2n_0} \tag{1}$$

where  $\Sigma$  is the ray path AOB . The value of n is a function of pressure and temperature of the atmospheric air. It is usually assumed that  $(n-1)=c\rho/\rho_0$ , where  $\rho$  is the density of air and  $\rho_0$  is the density at normal pressure  $\rho_0$  and normal temperature  $\Gamma_0$ . The value of c is 2.925 x 10<sup>-4</sup> at  $\lambda$  = 5980 Å. The effect of the horizontal pressure gradient on lateral refraction can be neglected compared with the term  $(\rho/T)$  (dT/dx). Then the angle of lateral refraction  $\gamma$  is given (in seconds) by:

 $\gamma'' = 10'', 84 \frac{S}{T} \left[ \frac{dp}{dx} - \frac{p}{T} \frac{dT}{dx} \right]$  (2)

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The Nature of a Temperature Field in a Town and the Phenomenon of Anomalous Lateral Refraction

where p is in mm Hg. Eq (2) shows that for a constant value of S and small changes in the coefficient p/T² the value of lateral refraction angle  $\gamma$  depends primarily on the horizontal temperature gradient dT/dx. To investigate the effect of a temperature field in a street of a town (Dnepropetrovsk) very close to walls of large buildings, the author measured horizontal angles near such walls. These angles were measured with a mean error of ±1".5. The air temperature across a street was measured by means of an aspiration thermometer and thermoelectric couples. At the moment of measurement of an angle the author also noted the wind velocity, the amount of cloud and the visibility. It was found that measurement of horizontal angles can be considerably distorted by the horizontal temperature gradients existing in town streets at a height of about 1.5 m above the ground level. On clear, sunny days the observed value of the horizontal angle whose sides were at a distance of 0.75 m from the nearest wall exposed to the sun, was found

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The Nature of a Temperature Field in a Town and the Phenomenon of Anomalous Lateral Refraction

Card 4/6

refraction. Such variations reached up to 20" (see table on p 327) in the middle of the day, falling back to 0" in the morning and in the evening. Variations of the measured horizontal angles were much smaller on cloudy days or on those sides of the streets which were in shadow. Winds of velocities higher than 3-4 m/sec destroyed the temperature fields and consequently lateral refraction became negligible. Lateral refraction could also be decreased by moving the theodolite and the associated equipment used for measurement of horizontal angles, away from walls exposed to the sun. Under the worst conditions lateral refraction may be observed at distances up to 2-3 m from walls. Fig 2 shows three curves which represent the distortion of the observed horizontal angle at distances of 0.5, 1.25 and 1.75 m from a wall. These distortions are given in seconds of angle as a function of the time of day. Fig 3 shows the temperature field across a street at midday on April 30 on a calm, sunny day. The street ran in a North-easterly direction. This figure shows that the temperature gradients at distances up to 5 m from the walls were 0.10 per metre and more, increasing

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002065810020-7"

SOV/49-59-2-22/25

The Nature of a Temperature Field in a Town and the Phenomenon of Anomalous Lateral Refraction

considerably near the walls. To find the relationship between lateral refraction and its effect on measurement of horizontal angles with the intensity of solar radiation, the author calculated the latter for two cases with the same meteorological conditions (calm, sunny days) with the streets oriented in different ways. In each case the theodolite and the staff were placed at a distance of 0.70-0.75 m from a wall. In the first case the street ran in a North-easterly direction, and in the second case in a South-easterly direction. Fig 4 compares the experimental values of distortion of the measured horizontal angle with calculated intensities

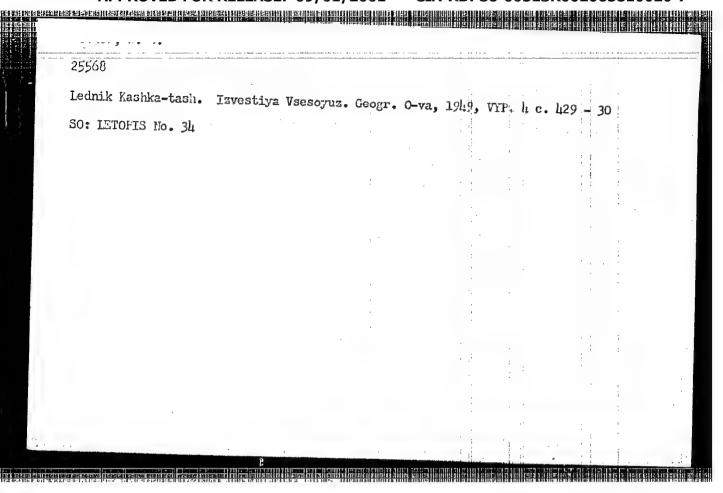
Card 5/6

The Nature of a Temperature Field in a Town and the Phenomenon of Anomalous Lateral Refraction

of direct solar radiation falling on a vertical surface. The curves show that variations in the horizontal angle during a day follow fairly well the curves of intensity of solar radiation received at a vertical wall. There are 4 figures, 1 table and 2 Soviet references.

ASSOCIATION: Dnepropetrovskiy institut inzhenerov zh.-d.transporta (Dnepropetrovsk Institute of Railway Transport Engineers) SUBMITTED: January 28, 1958.

Card 6/6



ZYUZIN, A. S.

Zyuzin, A. S.

"The Effect of Lateral Refraction on the Presision of Measurement of Horizontal Angles under the Conditions of Building Sites." Min Higher Education USSR. Belorussian Polytechnic Inst imeni I. V. Stalin. Chair of Geodesy, Minsk, 1955. (Dissertation for the Degree of Candidate in Technical Sciences.)

SO: Knizhnaya Letopis', No. 27, 2 July 1955

| Lateral<br>ersing s | Lateral refraction in connection with angle measurements at tra-<br>ersing stations in cities. Geod.i kart. no.6:18-26 Ag '56. |            |   |             |
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ZYUZIN, A.V., podpolkovník, voyennyy letchík pervogo klassa

At the head of the flight even in combat. Vest. Vozd. Fl. no.8:2932 Ag '60.

(Air warfare)

|                              |                                    |                                |                         |   | :                 | N/5<br>917.438<br>•29 |     |     |
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| Zyuzin, Dmitriy Vasil'yevich |                                    |                                |                         | : | : :               |                       |     |     |
| in sp                        | Ispytaniye skor<br>peed) Moskva, " | ost'yu (An ex<br>Molodaya Gvar | periment<br>liya", 1958 | • |                   | ·<br>·                |     |     |
|                              | 157 p. illus.                      |                                |                         |   | :                 |                       |     |     |
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| Zyuzin, Dmitriy Vasil'yevich  |       | • 47                 |  |
| V nebe "TU-104" [In the sky, the "TU-104", by] D. Zyuzin i A. Markusha. Moskva, Izd-vo "Molodaya Gvardiya", |       |                      |  |
| "TU-104", by D. Zyuzin i A. Markusha.  Moskva, Izd-vo "Molodava Gyardiya"                                   |       |                      |  |
| 1957.   | 1.    |                      |  |
| 60 p. illus., diagrs., maps, tables.  |       |                      |  |
| Bibliographical footnotes.  | * : • |                      |  |
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ZYUZIN, Dmitriy Vasil'yevich, letchik-ispytatel', Geroy Sovetskogo
Soyuza; PEREPELITSKAYA, A.G., red.

[Along the trail of clouds] Po oblachnomu sledu. Moskva,
Sovetskaia Rossiia, 1965. 276 p. (MIRA 18:6)

Lt =116, 6%.

AUTHOR:

Mal'ginov. N.

TITLE:

Valuable Handbook (Tsennoye posobiye)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 6, p 5 (USSR)

ABSTRACT:

The author reviews three new books. The first, by N. K. Pyneyev entitled "Action of a Plane's Crew" When Compelled to Land in an Uninhabited Area" (Deystviya ekipazha samoleta vynuzhdennopopavshego v bezlyudmuyu mestnost!), is published by Voyenizdat, 1957. The second, a pamphlet by D. Zyugin and A. Markusha, entitled "Tu-104 in the Air" (V nebe Tu-104), published by Molodaya Gvardiya (Young Guard) Moscow, 1957, reviews briefly the development of Soviet aviation; the third new book : by M. V. Vodop'yanov, well known polar pilot, is entitled "In the Air and on the Ground" (V vozdukhe i na zemle), Khabarovsk, 1957.

2. Books-Review

1. Civil aviation-USSR

Card 1/1

Call Nr: Not given

AUTHOR:

Zyuzin, Dmitriy Vasil'yevich and Markusha, Anatoliy Markovich

TITLE:

The TU-104 in the Sky (V nebe TU-104)

PUB. DATA:

Izdatel'stvo Tsentral'nogo komiteta Vsesoyuznogo Leninskogo kommunisticheskogo soyuza molodezhi "Molodaya gvardiya, "Moscow.

1957, 62 pp., 100,000 copies

ORIG. AGENCY:

None given

EDITOR:

Fedchenko, V.; Tech. Ed.: Shuvalov. I.

PURPOSE:

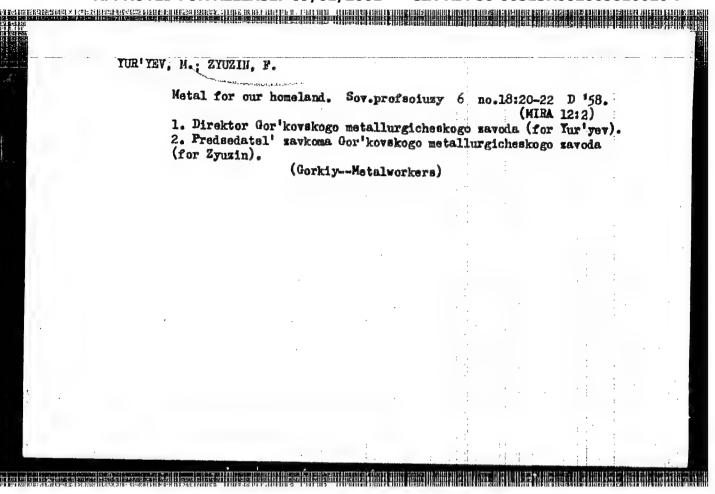
Publicity.

COVERAGE:

The author states that the TU-104 is the first multi-passenger, high-speed airplane to have opened a new era in air transportation the era of jet aviation. This booklet describes how this airplane was designed, built and tested and how a Soviet design group works in creating new aircraft prototypes.

Card 1/2

| The TU-104 in the Sky (cont.)      |     | Call Mr: | Not given |
|------------------------------------|-----|----------|-----------|
| TABLE OF CONTENTS                  |     |          | ,         |
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| The Heart of an Airplane           |     | *        | 15        |
| Realization of a Project           |     | :        | 19        |
| The TU-104 Passes an Examination   |     | ,<br>T   | 27        |
| Let's Get Acquainted!              |     | :        | 35        |
| How Was This Possible?             | 1 1 |          | 45        |
| The TU-104an Airplane for Everyone | :   |          | 53        |
| Speed Knows No Limits              | 3   |          | 57        |
| AVAILABLE: Library of Congress     |     | :        |           |



ZYUZIN, F. S.

Tractors

Spark extinguisher for tractors working the the fields extracting out peat. Torf. prom. 29, No. 6, 1952

Monthly List of Russian Accessions, Library of Congress, September 1952. Unclassified.

| Consumption of metal in repairing pairing pair | peat machinery. | forf.prom. | 30 no.9:15<br>(HLRA 6:8)                |
|--|-----------------|------------|---|
| 1. Orekhovo-Zuyevskiy torfotrest.  | 1               | (Machin    | ery—Repairing                           |
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F. S. Ejurin and A. E. Matrosovich, Enteronalizatory productivative Orgidary less torfetracts (Rationalizars of the Orekhov Peat Trust Enterprises), Cosenergoizdat.

The brochure describes the work experience of stakhanovites and rationalizers of peat onterprises. A description of the machines and devices suggested by rationalizers of these enterprises is included.

The brochure is intended for workers of the peat industry.

SO: Sovetskive knigi (Soviet Books), No. 183, 1953, Noscow, (U-6472)

ZYUZIN. F.S.; POLIKARPOV. A.A.; VARENTSOV. V.S., redaktor; SKVORTSOV, I.N., toFinitcheskiy redaktor

[Innovators in peat interprises of the Orekhovo-Zuyavo peat trust]

Hovatory torfopredprinatii Orekhovo-Zuevakogo torfotresta. Hoskva,

Gos. energ. izd-vo, 1956. 31 p. (MIRA 10:2)

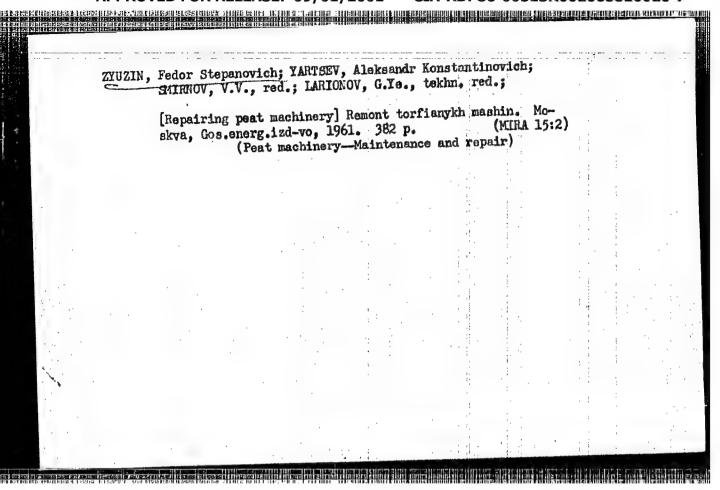
(Orekhovo-Zuyavo---Peat industry)

ZYUZIN, Fedor Stepanovich; YARTSEV, Aleksandr Konstantinovich; VARRNTSOV,
V.S., Tedactor; MidVEDEV, L.Ya., tekhnicheskiy redaktor

[Repair of peat cutting machines] Remont mashin frezernogo sposobe
dobychi torfa. Moskva, Gos.energ.izd-vo, 1957. 239 p. (MLRA 10:10)

(Peat machinery--Meintenance and repair)

|   | ZYUZIN, F.S., inzh.             |                  | <del></del>                     | · · · · · · · · · · · · · · · · · · · |        |
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|   | Manufacture of<br>40 no.4:16-20 | peat-mineral-am  | monia fertilizers.              | Torf. prom.<br>(MIRA 16:10)           | ·<br>· |
| 4 | 1. Orekhovo-Zu                  | yevskiy torfokom | binat Moskovskogo               | soveta narodnogo                      |        |
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ZYUZIN, F.S., inzh.; SAVENKO, I.V., inzh. Industrial production of peat fertilizers and manures at the peat works of the Moscow Province Economic Council. Torf. (MIRA 13:2) prom. 36 no.6:4-8 '59. 1. Orekhovskiy torfotrest (for Zyuzin). 2. Mosoblaovnarkhos (for Savenko). (Moscow Province--Peat) (Moscow Province--Fertilizers and manures)

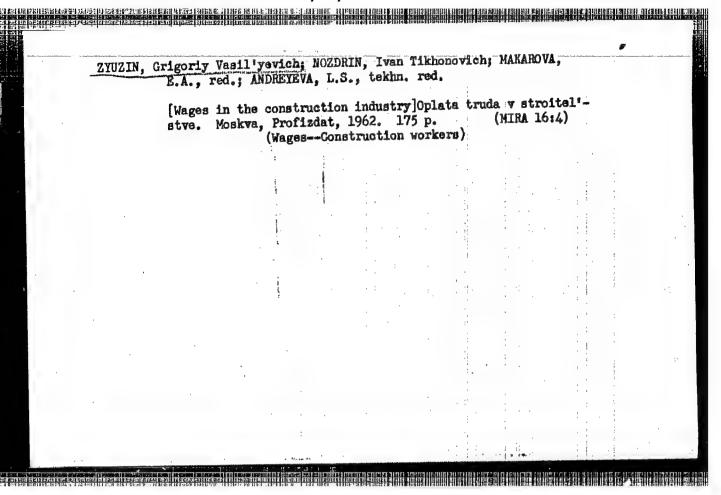
POLIKARPOV, A.A., insh.; ZYUZIN, F.S., insh.

Operation of UNCT-4 peat-winning machines fitted with milling druns.

Torf.prom. 35 no.2:16-17 '58. (MIRA 11:5)

1. Orekhovo-Zuyevskiy torfotrest.

(Peat machinery)



NESTEROVICH, V.P.; NOSENKO, Yu.I.; ZYUZIN, I.I., inzh., retsenzent;
ARSHINOV, I.M., inzh., red.; VOROB'YEVA, L.V., tekhn.red.

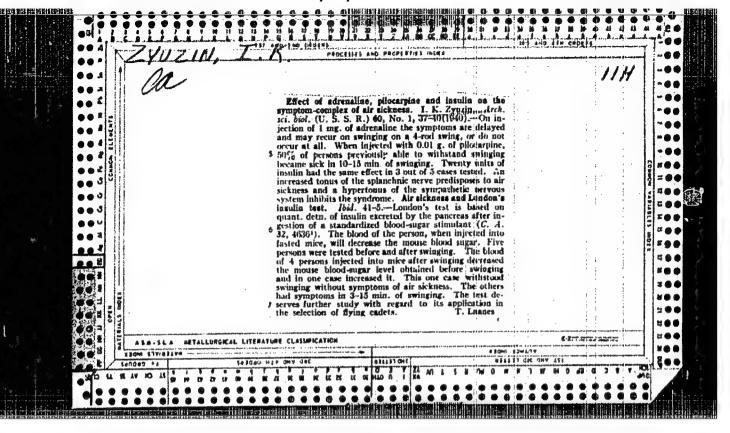
[Repair of six-axle gondal cars] Remont shestiosnykh polivagonov; opyt vagonnogo depo st. Volnovakha Donetskoi dorogi. Moskva, Transzheldorizdat, 1963. 82 p.

(MIRA 17:2)

ZYUZIN, Ivan Ivanovich; VAKULENKO, Sergey Mikhaylovich; SARANTSEV,
Yu.S., red.

[Organization and technology of the repair of freight cars;
work practices of the Taiga Station depot of the Western
siberia Railroad] Organizatsiia i tekhnologiia remonta gruSiberia Railroad] Organizatsiia i tekhnologia remonta gruzovykh vagonov; opyt raboty vagomogo depo st. Taiga Zapadnozovykh vagonov; opyt raboty nagomogo depo st. Taiga ZapadnoNoskva, Transport, 1964.

(MIRA 17:9)



ZYUZIN, I.K., professor, doktor meditsinskikh nauk.

Restoration of visual illusory perception in craniccarebral trauma under the effect of certain drugs. Trudy Gos.inst.po izuch.mosga 15:158-162 '47. (MIRA 7:2)

1. Iz Gos.Instituta Mozga im. Bekhtereva (direktor deystvitel'nyy chlen Akademii meditsinskikh nauk, zasluzhennyy deyatel' nauki professor V.P.Osipov) i Psikhonevrologicheskogo Instituta im. Bekhtereva (direktor professor V.N.Myasishchev).

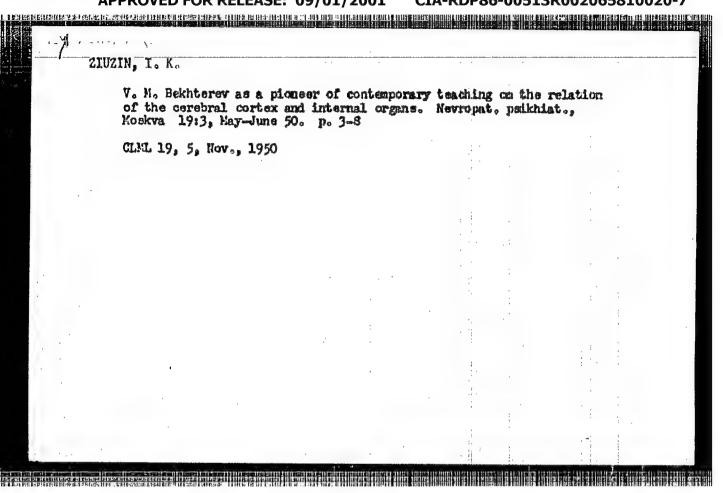
(Drugs) (Brain--Wounds and injuries) (Sanses and sensation)

ZYUZIN, I. K.

Zyuzin, I. K. - "V. M. Bekhterev and modern times," Vrachob.
dele, 1949, No. 2, columns 169-74, with portrait

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

| 30957. Travma golovnogo<br>Nevropatologiya i psikhia | mozga i antitoksichoski<br>striya, 1949, No. 6, c. 8 | -11      |           | :          |
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### ZYUZIN, I.K.

Effect of constant descerding current on blood pressure in hypertension.

Nevropat. psikhiat., Moskva 20 no.6:54-56 Nov-Dec 51. (CIML 21:4)

1. Professor. 2. Of the Academy of Medical Sciences USSR and of the Clinic for Mervous Diseases (Director--Prof. I.Ya. Rasdol'akiy, Corresponding Member of the Academy of Medical Sciences USSR), Leningrad Sanitary-Hygienic Medical Institute.

ZYUZIN, I. K. (PROF)

Nervous System - Wounds and Injuries

中世级制造出产业的特殊的 1.25点中国对对社会创建的新国际经验的国际等。 中国经济共1.34年16.3、1.61.5。 1.16.5。 1.16.5。

Restoration of distribed motor functions in organic injuries of the central nervous system in the light of Pavlov's theory of the higher nervous activity. Zhur. nevr. i psikh. 52 No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress,

CIA-RDP86-00513R002065810020-7" APPROVED FOR RELEASE: 09/01/2001

ZYUZIN, I. K., PROF.

Leningrad

Iz Akademii meditsinskikh nauk SSSR i kliniki nervnykh boleznei (dir. - Prof. I. YA. rz akademii meditelinskimi nauk book i aliniki nelvuyan boleznel (dii. 1101) Razdol'skii) Leningradskogo sanitarno-gigienicheskogo meditsinskogo instituta

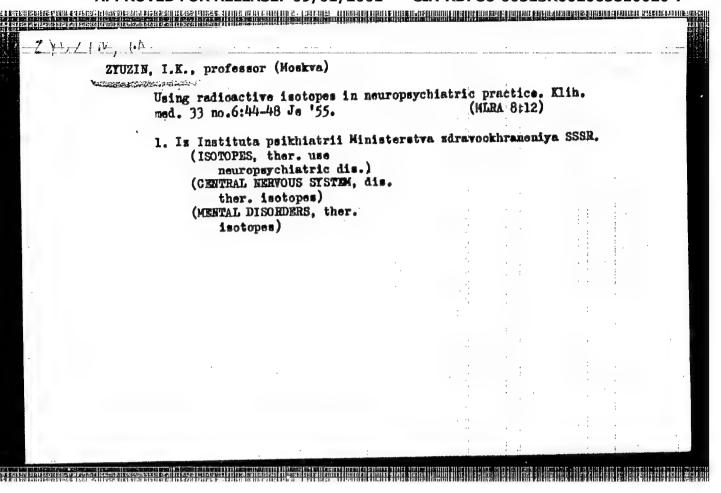
Zhur.nevr. i psikh., 52, 8, avgust, 1952

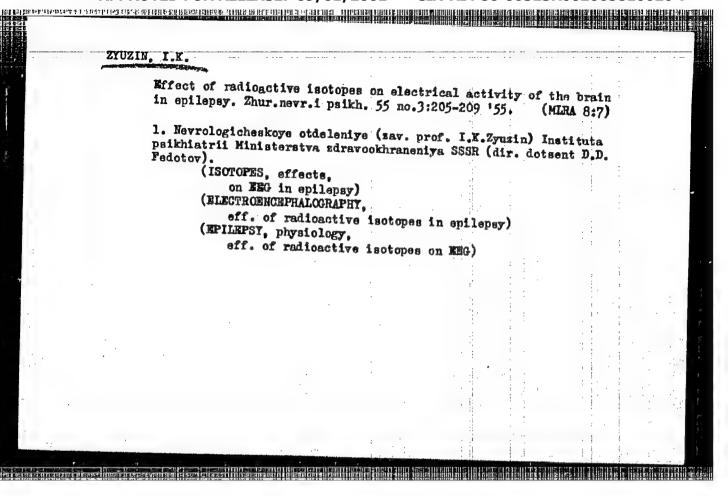
## ZYUZIN, I.K.

Antitoxic function of the liver in hypertension. Klin. med., Moskva 31 no. 1:89 Jan 1953. (CIML 24:1)

1. Professor. 2. Of the Clinic for Nervous Diseases (Director — Corresponding Member of the Academy of Medical Sciences Prof. I. Ta. Razdol'skiy), Leningrad Sanitary Hygienic Medical Institute.

| ZYU | ZIN, I.K.  |                                |              |                               |     |
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|     | Functional lability (not Zhur. nevr. i paikh. 54 | bility) of the<br>no.7:543-548 | J1 154.      | mer in epilepsy<br>(MIRA 7:7) | •   |
|     | 1. Institut psikhiatrii<br>(EPILEPSY, physi      | Ministerstva                   | Edravookhran | eniya SSSR.                   | ŧ   |
|     | *motor analyso                                   | r, lability)                   |              |                               | :   |
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ZYUZIN, I.K.; ZAICHKINA, T.S. (Moskva)

Effect of radioactive isotopes on artificially induced convulsions in animals. Zhur.mevr.i psikh. 55 no.5:343-344 '55. (MIRA 817)

1. Institut psikhiatrii (dir. -dotsent D.D.Fedotov) Ministerstva zdravookhraneniya SSRR.
(CONVULSIONS, experimental, eff. of radioisotopes)
(ISOTOPES, effects, on exper. convulsions)

USSR/Human and Animal Physiology - Nervous System. Cortex of Cerebral Hemispheres. : Ref Zhur - Biol., No 7, 1958, 32171 Abs Jour Zyuzin, I.K. Author On the Lability of the Peripheral End of the Motor Inst Analysor as an Indicator of the Functional Changes of Title Brain Hemispheres. V sb.: Ucheniye N.Ye. Vvedenskogo v klinich. proktike. Orig Pub Odessa, 1957, 31-34. : No abstract. Abstract Card 1/1

USSR/Human and ini al Physiology, The Nervous System

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65713

Author : Zyuzin I.K., Drasnova A.I.

Inst Title

: Changes in Metabolic-Enzymatic Processes in the Blood of Patients with Epilepsy under the Effect of Smill Doses of

Redicactive Phosphorus.

Orig Pub : B. sb.L Vopr. psikhiatrii, Vyp. 2, Moscow, 1957, 146-148

Abstract : No abstract

Card : 1/1

#### ZYUZIN, I.K.

Use of radioactive isotopes in the diagnosis of organic affections of the brain [with summary in French]. Zhur.nevr. i psikh. 57 no.2: 241-245 '57. (MIRA 10:6)

1. Nevrologicheskoye otdeleniye (zav. - prof. I.K.Zyuzin)
Instituta psikhiatrii Ministerstva zdravookhraneniya SSSR, Moskva.
(BRAIN, wounds and inj.
localization of obscure lesions by isotopes)
(ISOTOPES

use in localization of obscure lesions of brain)

TIUEIN, I.E., prof., ERASHOVA, A.I., mladshiy naudnnyy sotrudnik

Effect of small doses of radioactive phosphorus on nitrogen metabolism, hemopoiesis, and the function of the cardiovancular system. Vest.rent.

1 rad. 33 no.3:75-76 ky-Je '56

(PHOSPHORUS, radioactive eff. on nitrogen metab., hemopoietic system., & cardiovanc. funct. (Rus))

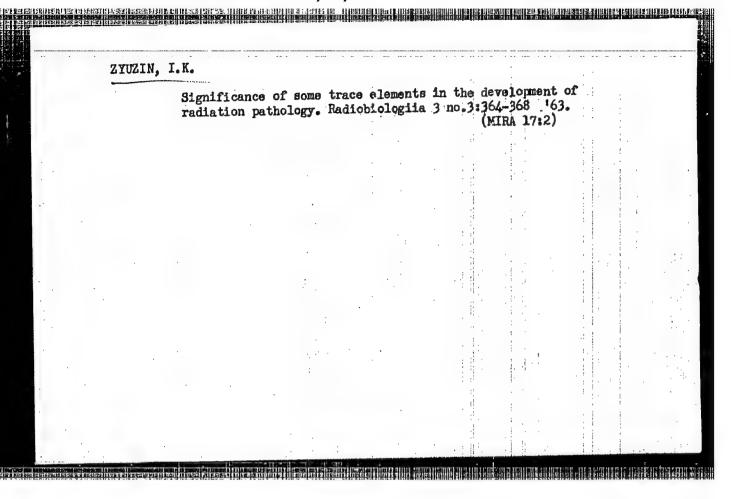
(NITROGEN, metab.

eff. of radiophosphorus (Rus))

(HEMOPOTETIC SISTEM, eff. of radiations on radiophosphorus (Rus))

(CARDIOVASCULAR SYSTEM., eff. of radiations on radiophosphorus, on funct. (Rus))

|   | Investigation of thyroid gland function in metal patients by means of radioactive iodine. Vop. psikh. no. 3:374-381 '59.  (MIRA 13:10) |                   |                     |  |  |  |
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|   | (THYROID GLAND)  | (IODINE-ISOTOPES) | (METAL ILLNESS)     |  |  |  |
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ACCESSION NR: AP3001061 8/0209/63/003/0364/0368

AUTHOR: Zyuzin, I. H.

TITIE: The significance of certain microelements in the development of radiation pathology

SOURCE: Radiobiologiya, v. 3, no. 3, 1963, 364-368

TOPIC TAGS: microelements, consists dopper, free radicula, radiation pathology

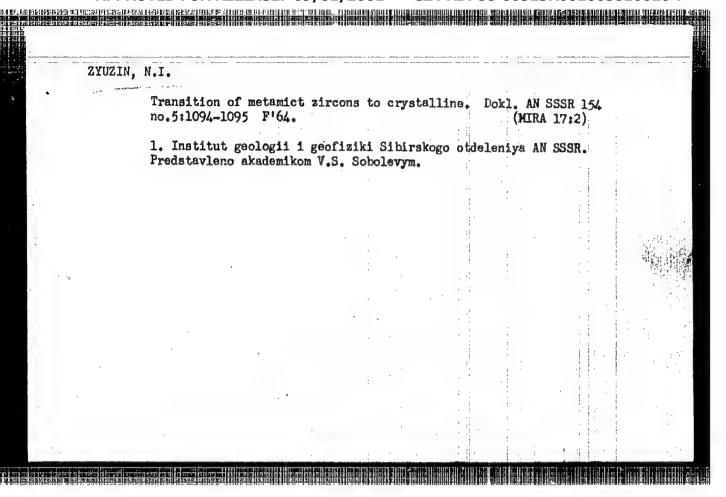
ABSTRACT: The article discusses the role of microelements in physiclogical and pathological processes of an organism based on twenty-mine different books and articles listed in the bibliography. The author shows the importance of microelements and then raises the question of what happens to them, particularly cobalt and copper, when an organism is irradiated. The liver is the main tissue in the organism for storing cobalt and copper, and their content decreases with radiation damage. Cobalt and copper enter the blood stream and are absorbed by the other tissues. According to several sources cited, the natural asticridizing agents are inactivated during irradiation and this leads to acceleration of oridizing processes and accumulation of free radicals and peroxides. The author concludes that the increased content of cobalt and copper in the blood and tissues (except the liver) of

Card 1/2

| ACCESSION NR:                            |             | j i.                                  |                         |                            |             |                             | )                              |
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| irradiated an tissues, may of the organi | be consider | ed an a pr<br>other har               | rotective<br>ed, concen | reaction in<br>trations of | oresing the | radioresist<br>copper in th | e<br>e                         |
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ZYUZIN I.M. KOMAROV P.S. Important resources for increasing crop yields. Zashch. rast. ot vred. i bol. 6 no.10:8-9 0 '61. (MIRA 16:6) ot vred. i bol. 6 no.10:8-9 0 61.

1. Pervyy sekretar' Kalacheyevskogo rayonnogo Komiteta Kommunisticheskoy partii Sovetskogo Soyuza (for Zyuzin). 2. Agronom po zashchite rasteniy sel'skogo khozyaystva Kalacheyevskogo rayona, Voronezhskoy oblasti (for Komarov). (Kalach District(Voronezh Province)—Plants, Protection of)



FLEKHANOVA, Ye.A.; GGLUHAVA, G.A.; ZYUZIH, N.1.

Mullite - iron oxide solid solution. Izv. SO AN SSSR no.3 Ser. khim. nauk no.1:48-54 '65. (MIRA 18:8)

1. Institut fiziko-khimicheskikh oanov pererabotki mineral nogo syr'ya Sibirskogo otdeleniya AN SSSR, Novosibirak.

ZOLOTUKHIN, V.V.; VASIL'YEV, Yu.R.; ZYUZIN, N.J.

High-ferriferous variety of prehalts and a new diagram for prehalts. Dokl. AN SSE, 164 nc.6:1390-1393 0 155.

(MIRA 18:10)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

Submitted May 25, 1965.

ZOLOTUKHIN, V.V.; VASIL'YEV, Yu.R.; ZYUZIN, N.I.

High-ferruginous pumpellyite (lotrite) from the Noril'sk region and a new diagram for pumpollyites. Dokl. AN SSSR 165 no.5:1156-1159 D '65.

(MRA 19:1)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Submitted March 6, 1965.

24 (8) SOV/56-37-3-55/62 Zhuravlev, N. N., Stepanova, A. A., AUTHORS: Zyuzin. N. I. On the Problem of the Superconductivity of the Compound BiPt TITLE: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959, Vol 37, PERIODICAL: Nr 3(9), pp 880 - 881 (USSR) The critical temperatures for BiPt found by various authors ABSTRACT: partly differ considerably. Whereas, e.g., according to Matthias, T<sub>c</sub> = 1.21 °K, N. Ye. Alekseyevskiy et al. found 2.4 K. but he also showed that in some BiPt-alloys superconductivity does not occur down to 1.3 °K (Refs 2,3). As shown by reference 4, BiPt crystallizes only in one form viz. hexagonally with the parameters a = 4.20 and c = 5.55 Å (NiAs-structure). Radiographical investigations carried out by the authors of this "Letter to the Editor" gave the same result. Temperature investigations also showed that it drystallizes in NiAsstructure, and the thermal expansion coefficients (parallel and perpendicular to the hexagonal axis) were determined as amounting to  $(4.0 \pm 1.0) \cdot 10^{-6}$  degree and  $(19.0 \pm 2.0) \cdot 10^{-6}$  degree Card 1/3

On the Problem of the Superconductivity of the Compound BiPt

sov/56-37-3-55/62

The authors investigated several BiPt-alloys of different composition also stoichiometrical ones, and subjected them to different types of thermal treatment. It was, however, found again that in all cases the BiPt-phase in an AsNi-structure crystallizes, and the lattice parameters were determined as amounting to a = 4.315 and c =  $5.490 \pm 0.005$  Å. The alloys were investigated radiographically by means of the powder method, and the maximum change of the volume of an elementary cell was found to amount to ~ 0.8% as against the stoichiometric composition (48.3% by weight Pt). This reduction of the elementary cell was found at 45% by weight Pt. The change of the size of the elementary cell and the herewith connected variation of the distance between two Bi-atoms might by responsible for the variation of Tc; already in a previous paper (Ref 7) it was shown that a decrease of the minimum interatomic Bi-Bi distances leads to an increase of T. The authors thank Professor G. S. Zhdanov and N. Ye. Alekseyevskiy for discussions. There are 7 references, 5 of which are Soviet.

Card 2/3

On the Problem of the Superconductivity of the SOV/56-37-3-55/62 Compound BiPt

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: June 13, 1959

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BMISHEV, Aleksandr Semenovich, kand.voyennykh nauk, dots.,
polkovnik; KALACHEV, Ivan Georgiyevich, kand.voyennykh nauk, dots.,
polkovnik; TEREKHOV, Petr Vanil'yevich, kand.voyennykh nauk, dots.,
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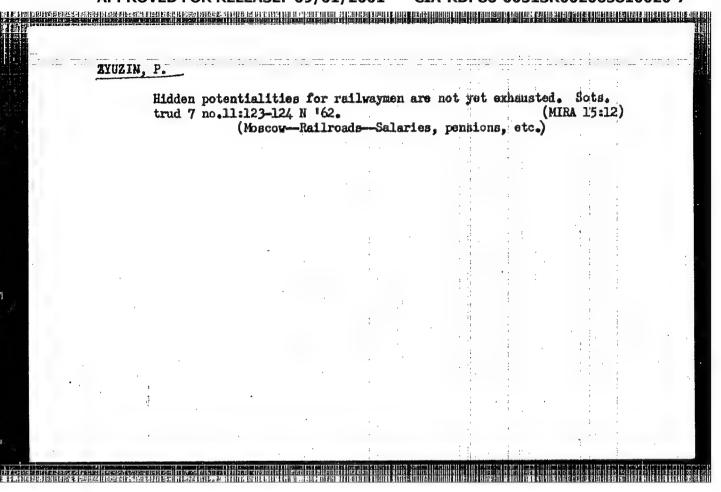
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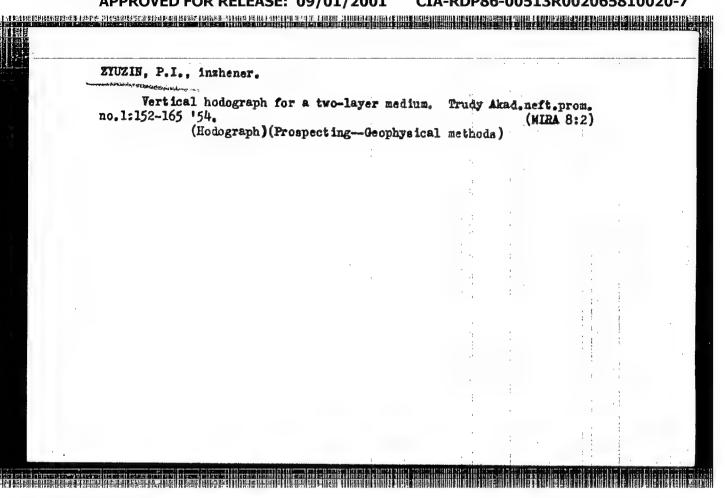
[Armored and mechanized forces of the Soviet Army; a brief account of
their development and battle experiences] Bronstankovye i mekhanizirovannye voiska Sovetskoi Armii; kratkii ocherk rasvitiia i boevogo
puti. Moskva, Voen. izd-vo M-va obor. SSSR, 1958. 263 p. (MIRA 11:5)
(Russia--Army)

ZYUZIN, N.T., KOLYCHEV, N.H., SOLUKHA, A.K.

E.B. Rabkin's pigment tables for investigating acquired disorders in color senastica. Problefixiol-opt. 12:497-499 '58 (MIRA 11:6)

1. Kafedra oftalmologii Voyenno-meditsinakoy akademii ordena
Lenina im. S.M. Kirova.
(COLOR BLINDMESS)
(OPTICS--TABLES, ETC.)





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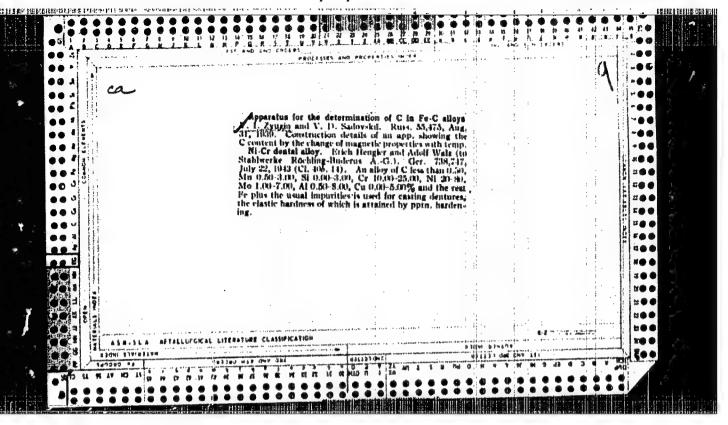
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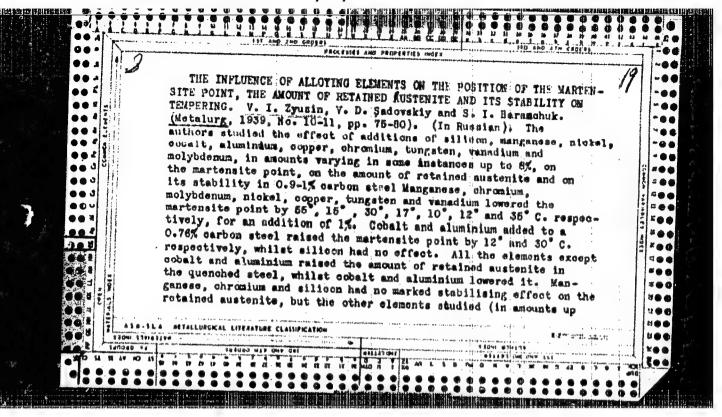
Study of the Transformation of Austenite in Carbon and Certain other Special
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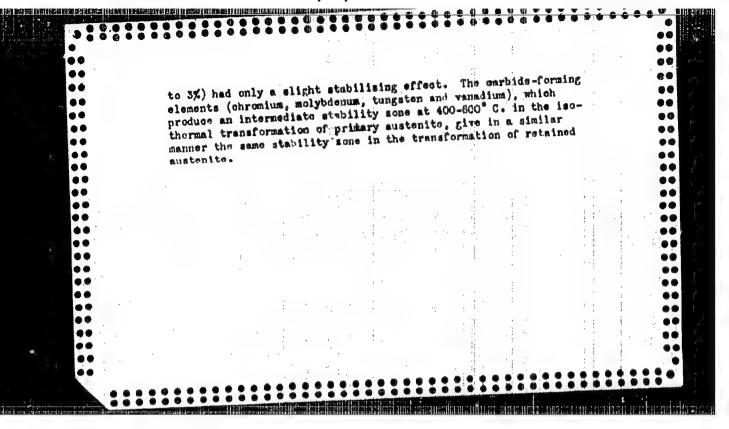
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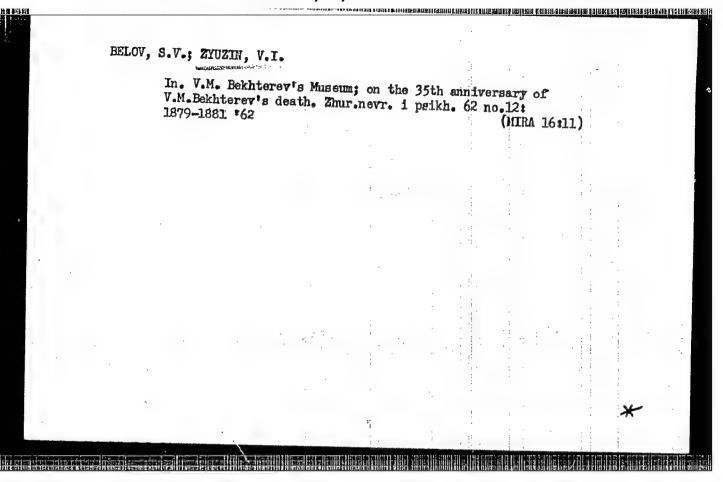


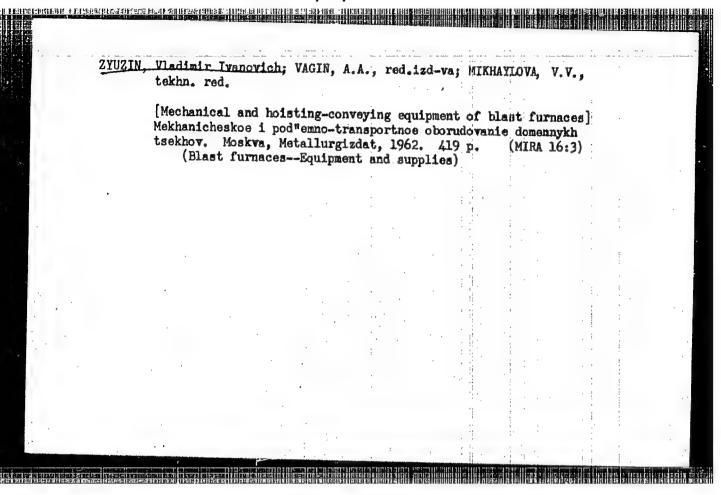
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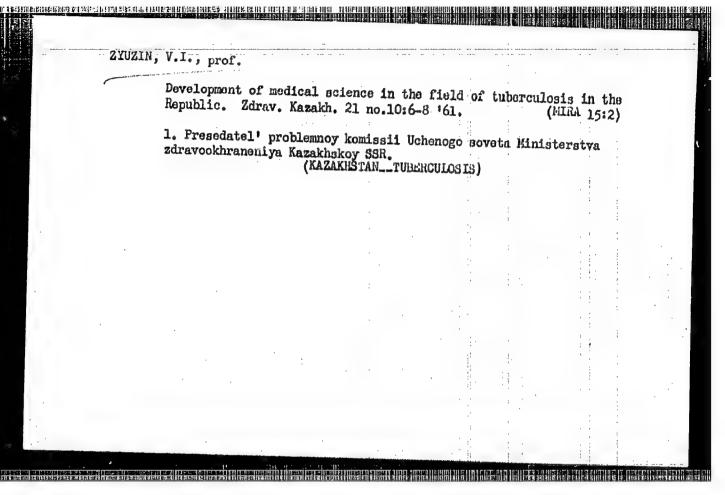
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# "APPROVED FOR RELEASE: 09/01/2001

NIKBERG, Il'ya Moiseyevich; RAYKO, Vladimir Vladimirovich [deceased];
ZYUZIN, Vladimir Ivanovich; GOLYATKINA, A.G., red. izd-va; ISLEHT'YEVA, P.G., tekhn. red.

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(Rolling mills)

PHASE I BOOK EXPLOITATION

SOV /4970

## Zyuzin, Vladimir Ivanovich

Mekhanicheskoye oborudovaniye metallurgicheskikh tsekhov; posobiye dlya konstruktorov i mekhanikov (Mechanical Equipment of Metallurgical Shops; Manual for Designers and Machinists) Moscow, Metallurgizdat, 1960. 334 p. Errata slip inserted. 7,500 copies printed.

Eds.: A.I. Gurvits, and N.A. Valov; Ed. of Publishing House: A.A. Vagin; Tech. Eds.; M.K. Attopovich, and V.V. Mikhaylova.

FURPOSE: This book is intended for designers of metallurgical equipment and for the machinists who operate such equipment. The book may also be useful to students in schools of higher education and tekhnikums who are taking the course "Mechanical Equipment of Metallurgical Shops".

COVERAGE: The book contains basic information on processes involved in the production of pig iron and steel, and in rolling, and pipe manufacture. Modern mechanical equipment used in metallurgical shops is described. Also discussed are principal trends in the introduction of modern technology in metallurgy and the

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| iechanical Equipment (Cont.)   | BOV/4970  |
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ZYUZIN. Vladimir Ivanovich; GURVITS, A.I., red.; VALOV, W.A., red.;
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[Mechanical equipment of metallurgical plants; menual for construction engineers and mechanics] Mekhanicheskoe oborudovante metallurgicheskikh tsekhov; posobie dlia konstruktorov i mekhanikov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 334 p.

(Metallurgical plants--Equipment and supplies)

(Mika 14:1)

(Rolling mills)

